

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/006977

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C02F5/00 C02F5/14 C23F11/10 C23F11/14

E21B37/06

C07F9/48

C08F220/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C23F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                       | Relevant to claim No. |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X        | US 6 312 644 B1 (MORIARTY BARBARA E ET AL)<br>6 November 2001 (2001-11-06)<br>column 1, lines 13-23, 39-52; claims 1-17<br>column 9, line 59 - column 10, line 14;<br>examples 1-5<br>-----<br>WO 01/81654 A (ONDEO NALCO COMPANY)<br>1 November 2001 (2001-11-01)<br>pages 1-2; claims 1,28-38<br>----- | 1-15                  |
| X        |                                                                                                                                                                                                                                                                                                          | 1                     |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the International search

10 March 2005

Date of mailing of the International search report

17/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Wengeler, H

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006977

| Patent document cited in search report |    | Publication date |                               | Patent family member(s)                                                                                                                        |  | Publication date                                                                                                                         |
|----------------------------------------|----|------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|
| US 6312644                             | B1 | 06-11-2001       | AU DE EP JP WO                | 1773001 A<br>60015800 D1<br>1242559 A1<br>2003529553 T<br>0144403 A1                                                                           |  | 25-06-2001<br>16-12-2004<br>25-09-2002<br>07-10-2003<br>21-06-2001                                                                       |
| WO 0181654                             | A  | 01-11-2001       | US AU CA EP JP TW WO US US ZA | 6645428 B1<br>5733501 A<br>2404311 A1<br>1282732 A1<br>2003531283 T<br>570969 B<br>0181654 A1<br>2004135124 A1<br>2004135125 A1<br>200207690 A |  | 11-11-2003<br>07-11-2001<br>01-11-2001<br>12-02-2003<br>21-10-2003<br>11-01-2004<br>01-11-2001<br>15-07-2004<br>15-07-2004<br>25-09-2003 |